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本国际公布:

- 包括国际检索报告(条约第 21 条(3))。

(54) Title: MULTI-DRIVER TRANSDUCER HAVING SYMMETRICAL MAGNETIC CIRCUIT AND SYMMETRICAL COIL CIRCUIT

(54) 发明名称: 具有对称磁路及对称线圈电路的多驱动器换能器

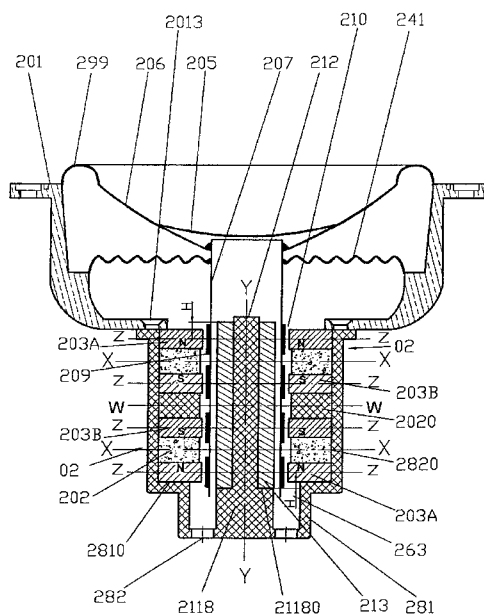


图 6 / Fig. 6

(57) Abstract: A multi-driver transducer having a symmetrical magnetic circuit and a symmetrical coil circuit, where one or more pieces of circular or annular partitions made of non-magnetic materials are used to bond two or more sets of dual magnetic gap, dual coil driver units (01 or 02) into one integrated magnetic core. Constituted between an inner circumferential face or an outer circumferential face of one or two tubular magnetic yokes embedded in an open-end tubular thin wall of the bracket and lateral circumferential faces of an upper plate and of a lower plate of the magnetic core are four or more coaxial isodiametric annular magnetic gaps, the four or more coaxial and isodiametric annular magnetic gaps having inserted therein four or more coaxial and isodiametric coils are to govern winding direction, connection method, and necessary technical characteristics of the coils, thus constituting the multi-driver transducer having one or more pairs of mutually-repelling magnets, the symmetrical magnetic circuit, and the symmetrical coil circuit. Counter-electromotive force and inductance acquired via induction by the transducer during working process are mutually canceled. The transducer is provided with resistive load characteristics or near-resistive load characteristics, and is provided with ultra-high sensitivity, high resolution, and high-fidelity quality.

(57) 摘要:

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具有对称磁路及对称线圈电路的多驱动器换能器，通过一块或一块以上非导磁材料制成的圆形或圆环形隔板，将二组或二组以上双磁隙双线圈驱动器单元 01/或 02 粘结成为一个整体磁芯。一个或二个嵌入安装在所述托架敞口环筒薄壁的环筒状磁轭的内周面或外周面与所述磁芯的上极板和下极板的垂直周面间构成 4 个或 4 个以上同轴等径的环形磁隙，插入 4 个或 4 个以上同轴等径的线圈，规定线圈的绕向、连接方式及必要的技术特征，由此构成具有一对或一对以上相斥型磁铁和对称磁路及对称线圈电路的多驱动器换能器。所述换能器在工作过程中感应得到的反电动势及电感被相互抵消，该换能器具有电阻负载特性或近似于电阻负载特性，同时具有超高灵敏度、高解析力和高保真品质。